

Attachment A: Plaintiff Black Warrior Riverkeeper's Exhibit List

EX.	DESCRIPTION	IDENTIFICATION
1	Black Warrior Riverkeeper's Notice of Intent to File Citizen Suit for Violations of Clean Water Act and the Resource Conservation and Recovery Act at the Maxine Mine near Praco, AL (June 29, 2016)	BWR000538-561
2	April 19, 2016 Email Communications	BWR0001564
3	April 19, 2016 Email Communications	BWR0001565-1568
4	Findings and Order, R78-82-134 (July 7, 1983)	BWR000311-313
5	Historical Aerial Photographs	BWR000517-534
6	Black Warrior Riverkeeper Aerial and Ground Photographs, pre-June 29, 2016	BWR000586-587; BWR000592-717
7	Nelson Brooke Patrol Notes, Feb. 14, 2007	BWR000590; Brooke Dep. Ex. 5
8	2016 Sampling Results Spreadsheet, 2016	BWR000737-746
9	2005 Sampling Result	BWR000747
10	2016 GEL Laboratories Sampling Results	BWR000752-769
11	2016 Pace Analytical Sampling Results	BWR000778-871
12	June 12, 2017 Field Measurements	BWR000873
13	Nelson Brooke Photographs, June 12, 2017	BWR000909-1146
14	Email from Charlie Scribner (July 18, 2017)	BWR001569-76; Brooke Dep. Ex. 17; Kinney Dep. Ex. 24;
15	Email from Nelson Brooke (Feb. 20, 2013)	BWR001577-1582; Brooke Dep. Ex. 15; Kinney Dep. Ex. 22
16	Nelson Brooke Email and Attachments (Nov. 15, 2011)	BWR001583-1590; Brooke Dep. Ex. 10
17	Email from Nelson Brooke (Feb. 12, 2013)	BWR001603-1607; Brooke Dep. Ex. 14; Kinney Dep. Ex. 23
18	Black Warrior Riverkeeper Photographs, 2011	BWR001624-1641

19	Nelson Brooke Patrol Notes, Oct. 20, 2011	BWR001642; Brooke Dep. Ex. 6
20	Nelson Brooke Patrol Notes, May 24, 2006	BWR001644-1645; Brooke Dep. Ex. 4
21	Nelson Brooke Patrol Notes, June 23, 2015	BWR001646; Brooke Dep. Ex. 16
22	Nelson Brooke Photographs, August 1, 2017	BWR001647-1774
23	Nelson Brooke Photographs, August 16, 2017	BWR001775-1826
24	Nelson Brooke Photographs, August 17, 2017	BWR001827-1849
25	Nelson Brooke Photographs, August 18, 2017	BWR001850-1971
26	Nelson Brooke Photographs, August 19, 2017	BWR002025-2096
27	2017 Field Notes	BWR002220-2232
28	2016 Sampling Chain of Custody	BWR002262-2263
29	Acid Base Accounting Sampling Results	BWR002264-2270
30	Nelson Brooke Photographs and Video, April 25, 2018	BWR002807-2826
31	April 21-22, 2016 Email Communications	BWR002928-2935
32	Nelson Brooke Game Camera Time Lapse Photographs/Video	
33	Nelson Brooke Photographs and Videos, February 2019	BWR003102-3217; BWR003267-3274
34	Figure 14: Topographic Changes from 1956 to 1965	Brown 4/27/18 Rebuttal Rep.; Zanotti Dep. Ex. 24
35	Figure 15: Topographic Changes from 1965 to 2009	Brown 4/27/18 Rebuttal Rep.; Zanotti Dep. Ex. 25
36	Figure 16: GOB Placement, Erosion, and Net Accumulations at the GOB Pile	Brown 4/27/18 Rebuttal Rep.
37	Figure 28: River-Based Electrical Resistivity Tomography (ERT) Line 3	Brown 4/27/18 Rebuttal Rep.
38	Table 1: Location information for field measurements, surface water sampling locations and drive point piezometer locations	Brown 4/27/18 Rebuttal Rep.

39	Table 2: Location Information for Soil Sampling Sites	Brown 4/27/18 Rebuttal Rep.
40	Table 5: June 12, 2017 Site Inspection Field Measurements	Brown Dep. Ex. 10; 2017 Brown Rep.
41	Table 7: August 1, 2017 Field Investigation Field Measurements	Brown Dep. Ex. 11; 2017 Brown Rep.
42	Table 6: Soil, sediment, and GOB analytical results summary table	Brown Dep. Ex. 12; 2017 Brown Rep.
43	Table 9: Surface water and GW analytical summary results summary table – dissolved metals	Brown Dep. Ex. 13; 2017 Brown Rep.
44	Table 10: Surface water and GW analytical results summary table – total metals and other parameters	Brown Dep. Ex. 14; 2017 Brown Rep.
45	Table 11: August 16-18, 2017 Field investigation program field measurements – Groundwater	Brown Dep. Ex. 15; 2017 Brown Rep.
46	Figure 8: 1965 Site Aerial Photo	Brown Dep. Ex. 16; 2017 Brown Rep.
47	Figure 23: Land-Based Electrical Resistivity Tomography (ERT) Line 1	Brown Dep. Ex. 19; 2017 Brown Rep.
48	Figure 26: River-Based Electrical Resistivity Tomography (ERT) Line 1	Brown Dep. Ex. 22; 2017 Brown Rep.
49	Figure 27: River-Based Electrical Resistivity Tomography (ERT) Line 2	Brown Dep. Ex. 23; 2017 Brown Rep.
50	Table 2: Alabama Water Quality Criteria	Brown Dep. Ex. 25; 2017 Brown Rep.
51	Table 3: Other Water Quality Criteria and Guidance	Brown Dep. Ex. 26; 2017 Brown Rep.
52	Figure 18: 2017 Site Aerial Photo	Brown Dep. Ex. 7; 2017 Brown Rep.
53	Figure 19: Site Inspection Route	Brown Dep. Ex. 8; 2017 Brown Rep.
54	Figure 20: Sample Locations	Brown Dep. Ex. 9; 2017 Brown Rep.
55	Aerial Photos	Brown Dep. Ex. 28
56	New 2018 Analysis Based on PELA Comments on Air Photo Years	Brown Dep. Ex. 30.

57	GIS Data	Brown Dep. Ex. 31
58	Anthony Brown Curriculum Vitae	Brown Dep. Ex. 2; 2017 Brown Rep. App. A
59	Figure 3.1: Features of Interest at the Site	Brown Dep. Ex. 3: 2017 Brown Rep. at 4
60	Figure 29: Surface Water and Groundwater Quality Results	2017 Brown Rep.
61	Figure B.1: Local Geology	2017 Brown Rep.
62	Figure B.2: Black Warrior Drainage Basin	2017 Brown Rep.
63	Figure B.3: Aquifer Recharge Areas of Alabama	2017 Brown Rep.
64	Appendix C: Select Historical Correspondence	2017 Brown Rep.
65	Appendix D: Site Photographs	2017 Brown Rep.
66	Appendix E: Field Notes	2017 Brown Rep.
67	Appendix F: Hydrology and Hydrogeology 101 Overview	2017 Brown Rep.
68	Appendix G: Geophysical Investigation Report	2017 Brown Rep.
69	Appendix H: Soil, sediment and GOB laboratory analytical results	2017 Brown Rep.
70	Appendix I: Surface water laboratory analytical results	2017 Brown Rep.
71	Appendix J: Groundwater laboratory analytical results	2017 Brown Rep.
72	Figure 1: Site Location	2017 Brown Rep.
73	Figure 10: 1998, 2004, 2005 & 2006 Aerial Photos: Showing Erosion	2017 Brown Rep.
74	Figure 11: 2009, 2010, 2011 and 2012 Aerial Photos	2017 Brown Rep.
75	Figure 12: 2013, 2014, 2015 and 2016 Aerial Photos	2017 Brown Rep.
76	Figure 13: Key Historical Site Maps	2017 Brown Rep.
77	Figure 17: Recent oblique aerial photos	2017 Brown Rep.
78	Figure 2: Regional Geology	2017 Brown Rep.
79	Figure 21: Geophysics Base Map	2017 Brown Rep.
80	Figure 22: EM31 Terrain Conductivity Map	2017 Brown Rep.
81	Figure 24: Land-Based Electrical Resistivity Tomography (ERT) Line 2	2017 Brown Rep.

82	Figure 25: Land-Based Electrical Resistivity Tomography (ERT) Line 3	2017 Brown Rep.
83	Figure 3: 2017 Aerial Photograph Showing Features of Interest	2017 Brown Rep.
84	Figure 4: 2011 Topography Showing Features of Interest	2017 Brown Rep.
85	Figure 5: 2017 Aerial Photograph Showing Southerly Features of Interest	2017 Brown Rep.
86	Figure 6: 2011 Topography Showing Southerly Features of Interest	2017 Brown Rep.
87	Figure 7: 1945, 1956 and 1958 Aerial Photos	2017 Brown Rep.
88	Figure 9: 1975, 1987 and 1992 Aerial Photos	2017 Brown Rep.
89	Table 1: Historical Surface Water and GW Samples	2017 Brown Rep.
90	Table 12: Summary of aquatic toxicity results	2017 Brown Rep.
91	Table 13: Aquatic toxicity results	2017 Brown Rep.
92	Table 4: Soil Quality Guidance	2017 Brown Rep.
93	Table 8: August 16-18, 2017 Field investigation program field measurements – surface water	2017 Brown Rep.
94	Appendix B: Site Investigation Work Plan	Brown 2018 Rebuttal Rep.
95	Table 1: Field Measurements – Comparison between 2017 and 2019 Data	2019 Brown Supp. Rep.
96	Table 2: Surface Water Analytical Summary Results Summary Table – Dissolved Metals – Comparison Between 2017 Data and 2019 Data	2019 Brown Supp. Rep.
97	Table 3: Surface Water Analytical Results Summary Table – Total Metals & Other Parameters – Comparison of 2017 and 2019 Data	2019 Brown Supp. Rep.
98	Figure 1: Surface Water Samples Comparison Between 2017 Data and 2019 Data	2019 Brown Supp. Rep.
99	Appendix A: Site Photographs taken by Anthony Brown	2019 Brown Supp. Rep.
100	Appendix B: Field Notes – Surface Water Sampler (Mr. Barry Sulkin)	2019 Brown Supp. Rep.

101	Appendix C: Laboratory Analytical Data, Jan. and Feb. 2019	2019 Brown Supp. Rep.
102	Aquilogic Site Visit Photographs, July 2017	BWR001147-1223; BWR001509-1524
103	Aquilogic Site Visit Photographs, August 2017	BWR001989-2008
104	Aquilogic Site Visit Photographs, February 2019	BWR003063-3093
105	USEPA. (2011). A Field-Based Aquatic Life Benchmark for Conductivity in Central Appalachian Streams (Final Report). EPA/600/R-10/023F. Retrieved from: https://cfpub.epa.gov/ncea/risk/recordisplay.cfm?deid=233809 .	Referenced by Brown, Mitchelmore, Huryn, Sulkin
106	Auburn University Water Resources Center. “Physical Description.” Rivers of Alabama: Black Warrior Basin, 2016a, aaes.auburn.edu/wrc/resource/rivers-of-alabama/black-warriorbasin/physical-description/ . Accessed 22 Sept. 2017.	Referenced in Brown Rep.
107	Auburn University Water Resources Center. “Hydrologic Modifications.” Rivers of Alabama: Black Warrior Basin, 2016b, http://aaes.auburn.edu/wrc/resource/rivers-ofalabama/black-warrior-basin/hydrologic-modifications/ . Accessed 09 Oct. 2017.	Referenced in 2017 Brown Rep.
108	Bossong, C. R. (1992). <i>Geohydrology and ground-water availability in western Marshall and eastern Morgan counties, Alabama</i> (No. 91-4121). US Geological Survey; Books and Open-File Reports [distributor].	Referenced in 2017 Brown Rep.
109	Brahana, J. V., Macy, J. A., Mulderink, D., & Zemo, D. (1986). <i>Preliminary delineation and description of the regional aquifers of Tennessee: Cumberland Plateau Aquifer System</i> . No. 82-338. US Geological Survey.	Referenced in 2017 Brown Rep.

110	Culbertson, W.C. (1964). Geology and Coal Resources of the Coal-Bearing Rocks of Alabama. U.S. Department of the Interior. Geological Survey Bulletin 1182-B.	Referenced in 2017 Brown Rep.
111	Davis, G. B., & Ritchie, A. I. M. (1986). A model of oxidation in pyritic mine wastes: Part 1 equations and approximate solution. <i>Applied Mathematical Modelling</i> , 10(5), 314-322.	Referenced in 2017 Brown Rep.
112	Freeze, R.A., and J.A. Cherry. (1979). <i>Groundwater</i> . Prentice-Hall Inc. Upper Saddle River, New Jersey 07458.	Referenced in 2017 Brown Rep.
113	Harkins, J. R. and Others. (1980). <i>Hydrologic Assessment, Eastern Coal Province Area 23, Alabama (No. 80-683)</i> . US Geological Survey.	Referenced in 2017 Brown Rep.
114	Hunter, J. A., & Moser, P. H. (1990). Groundwater availability in Jefferson County. <i>Alabama: Alabama Geological Survey Special Map</i> , 224, 68.	Referenced in 2017 Brown Rep.
115	Jefferson County, Alabama: Climate. (2017). Retrieved Sept; 22, 2017, from http://www.bestplaces.net/climate/county/alabama/jefferson .	Referenced in 2017 Brown Rep.
116	Jennings, S. P., & Cook, M. R. (2010). <i>Assessment of the Hydro Geology of the Hanceville, Alabama, Area</i> (pp. 1-31, Rep. No. 1001). Tuscaloosa, Alabama: Geological Survey of Alabama. doi: https://www.gsa.state.al.us/img/Groundwater/OFR/OFR1001.pdf .	Referenced in 2017 Brown Rep.
117	Kopaska-Merkel, D. C., B., Dean, L. S., Moore, J. D., & Tew, B. H. (2005). Hydrogeology and vulnerability to contamination of major aquifers in Alabama: Area 4. <i>Geological Survey of Alabama and Alabama Department of Environmental Management</i> , Tuscaloosa, Alabama, 111.	Referenced in 2017 Brown Rep.

118	McCalley, H. (1898). <i>Map of the Warrior coal basin with columnar sections of formation so far as it carries workable coals</i> [Map]. Tuscaloosa, Ala.: Geological Survey of Alabama.	Referenced in 2017 Brown Rep.
119	McCalley, H., & Gibson, A. M. (1886). On the Warrior coal field (No. 1). Barrett & Company, State Printers and Binders. pg. 571.	Referenced in 2017 Brown Rep.
120	National Park Service. (not dated). Geology and History of the Cumberland Plateau. Retrieved September 15, 2017, from https://www.nps.gov/biso/planyourvisit/upload/webge.pdf .	Referenced in 2017 Brown Rep.
121	NOAA, National Weather Service. (2017, October 10). Past Significant Weather Events. Retrieved October 10, 2017, from https://www.weather.gov/mob/events .	Referenced in 2017 Brown Rep.
122	Omernik, JM. (1987). Ecoregions of the conterminous United States. <i>Ann Assoc Am Geograph</i> 77:118–125.	Referenced in 2017 Brown Rep.
123	Pitt, R., & Clark, S. (2002). Regional rainfall conditions and site hydrology for construction site erosion evaluations. Construction site erosion control for highway projects. Retrieved September 22, 2017, from http://unix.eng.ua.edu/~rpitt/Workshop/WSErionControl/Module4/Module4.htm .	Referenced in 2017 Brown Rep.
124	Ritter, D. F., Kochel, R. C., & Miller, J. R. (2011). <i>Process geomorphology</i> 5th ed., Long Grove Illinois: Waveland Press Inc.	Referenced in 2017 Brown Rep.
125	River, T. (2009). Alabama Water Use, 2005.	Referenced in 2017 Brown Rep.
126	Simonton, D. S., & King, S. (2013). Hydrogen sulfide formation and potential health consequences in coal mining regions. <i>Water Quality, Exposure and Health</i> , 5(2), 85-92.	Referenced in 2017 Brown Rep.

127	Simpson, T. A. (1965). Geologic and hydrologic studies in the Birmingham Red Iron-Ore District, Alabama: US Geol. <i>Survey Professional Paper C</i> , 473, 29.	Referenced in 2017 Brown Rep.
128	Steltenpohl, M.G., Horton, J.W., Hatcher, R.D., Zietz, I., Daniels, D.L., Higgins, M.W. (2013). Upper Crustal Structure of Alabama from Regional Magnetic and Gravity Data: Using Geology to Interpret Geophysics, and Vice-Versa. <i>Geosphere</i> ; 9 (4): 1044–1064. doi: https://doi.org/10.1130/GES00703.1 .	Referenced in 2017 Brown Rep.
129	Tew, B. H., Jr. (not dated). Aquifer Recharge Map of Alabama. Retrieved October 11, 2017, from https://www.gsa.state.al.us/gsa/groundwater/mapsgis .	Referenced in 2017 Brown Rep.
130	Thomas-Blate, J., & Scribner, C. (2016). Mining Battles Continue Along the Black Warrior. Retrieved September 22, 2017, from https://www.americanrivers.org/2016/09/miningbattles-continue-along-black-warrior/ . September 8.	Referenced in 2017 Brown Rep.
131	University of Alabama Department of Geography. (not dated). Physiologic Regions of Alabama. Retrieved September 22, 2017, from http://alabamamaps.ua.edu/contemporarymaps/alabama/physical/al_physio.jpg .	Referenced in 2017 Brown Rep.
132	US Climate Data. (2017). Climate Birmingham - Alabama. Retrieved September 15, 2017, from https://www.usclimatedata.com/climate/birmingham/alabama/united-states/usal0054 .	Referenced in 2017 Brown Rep.
133	U.S. Government Printing Office (USGPO). (2012). Federal Register. Volume 77, Number 33, pages 10288 to 10289. February 21, 2012.	Referenced in 2017 Brown Rep.
134	USGS. (2003). Magnitude and Frequency of Floods in Alabama, 2003. Scientific Investigations Report 2007-5204.	Referenced in Brown Rep.

135	USGS. (2004). Magnitude and Frequency of Floods on Small Rural Streams in Alabama. Scientific Investigations Report 2004-5135.	Referenced in 2017 Brown Rep.
136	USGS. (2011). The National Map - Advanced Viewer. Retrieved October 09, 2017, from https://viewer.nationalmap.gov/advanced-viewer/ .	Referenced in 2017 Brown Rep.
137	USGS. (2017). National Hydrography Dataset (NHD). Retrieved from: https://nhd.usgs.gov/	Referenced in 2017 Brown Rep.
138	USGS. (2017). USGS 02456500 LOCUST FORK AT SAYRE, AL. Retrieved September 15, 2017, from https://waterdata.usgs.gov/nwis/uv/?site_no=02456500&PARAmeter_cd=00065%2C00060%2C00062%2C72020 .	Referenced in 2017 Brown Rep.
139	Whitson, C. M. (2013). Alabama Mine Map Repository, Directory of Underground Mine Maps (pp. 1-163, Publication). Birmingham, Alabama: Alabama Department of Labor. doi: https://www.labor.alabama.gov/Inspections/Mining/Directory_of_Mine_Maps_2013.pdf .	Referenced in 2017 Brown Rep.
140	USEPA. (1994). Technical Document – Acid Mine Drainage Prediction. Retrieved from: https://www.epa.gov/sites/production/files/2015-09/documents/amd.pdf .	Referenced in Brown 2018 Rebuttal Rep.
141	USEPA, Regional Screening Levels Frequent Questions (Nov. 2017), https://www.epa.gov/risk/regional-screening-levels-frequent-questionsnovember-2017#FQ6 .	Referenced in Brown 2018 Rebuttal Rep.
142	USEPA. (2017b). Regional Screening Levels (RSLs) - Generic Screening Tables (November 2017). Summary Table (TR=1E-6, THQ=0.1). Retrieved from: https://semspub.epa.gov/src/document/11/197028 .	Referenced in Brown 2018 Rebuttal Rep.

143	USGS. (2013). Geochemical and Mineralogical Data for Soils of the Conterminous United States. Data Series 801. Retrieved from: https://pubs.usgs.gov/ds/801/ .	Referenced in Brown 2018 Rebuttal Rep.
144	Alabama Department of Environmental Management (ADEM). (1988). National Pollutant Discharge Elimination System Permit – Drummond Company, Inc., Maxine Mine, Permit Number AL0001724. Draft Permit. July 28, 1988.	DRUM002547-2585
145	Photographs of Dimova Site Visit by Nelson Brooke	BWR002155-2219
146	Pictures of core samples	BWR002234-2236; Dimova Dep. Exs. 7-9
147	Table - sediments samples tested for heavy metals	BWR002237; Dimova Dep. Ex. 10
148	Natasha Dimova CV	Dimova Dep. Ex. 4
149	Table 1 – GPS coordinates of the sediment core locations	Dimova Dep. Ex. 4
150	Table 2 – GPS coordinates of the collected ERT data images	Dimova Dep. Ex. 4
151	ERT Shore-perpendicular transect at Site #1 Figures	Dimova Dep. Ex. 4
152	ERT Shore-parallel transect at Site #1 Figures	Dimova Dep. Ex. 4
153	Average water content table and chart	Dimova Dep. Ex. 4
154	Grain size analyses tables	Dimova Dep. Ex. 4
155	Charts of heavy metal concentrations in sediments collected	Dimova Dep. Ex. 4
156	Map showing research area with study sites	Dimova Dep. Ex. 5
157	Dimova Field Notes	BWR003094-3095
158	Montiel, D; N. Dimova; B. Andreo; J. Prieto; J. Garcia-Orellana; and V. Rodellas. Assessing submarine groundwater discharge (SGD) and nitrate fluxes in highly heterogeneous coastal karst aquifers: challenges and solutions (2017), Journal of Hydrology, doi: https://doi.org/10.1016/j.jhydrol.2017.12.036 .	Referenced in Dimova Rep.

159	Rhodes, K.; Proffitt, T.; Rowley, T.; Knappett, P.; Dimova, N.; Tebo, D.; Miller, G. Quantifying groundwater discharged to a low-gradient river with high-frequency differential gaging and natural tracers (accepted with revisions in <i>Water Resources Research, WRR</i>).	Referenced in Dimova Rep.
160	Dimova, N., Paytan, A., Kessler, J. D., Sparrow, K. J., Kodovska, F. G-T., Lecher, A., L., Murry, J., and Tulaczyk, S. (2015). Current magnitude and mechanisms of groundwater discharge in the Arctic: a case study from Alaska, <i>Environmental Science and Technology (ES&T)</i> , doi: 10.1021/acs.est.5b02215.	Referenced in Dimova Rep.
161	Dimova, N.T., P.W. Swarzenski, H. Dulaiova and Craig Glenn (2012), Utilizing multichannel electrical resistivity methods to examine the dynamics of the fresh water-seawater interface in two Hawaiian groundwater systems, <i>Journal of Geophysical Research (JGR)</i> , 117, doi:10.1029/2011JC007509.	Referenced in Dimova Rep.
162	Swarzenski, P. W., W.C. Burnett, W.J. Greenwood, B. Herut, R. Peterson, N. Dimova, Y. Shalem, Y. Yechieli, Y. Weinstein (2006), Combined time-series resistivity and geochemical tracer techniques to examine submarine groundwater discharge at Dor Beach, Israel, <i>Geophysical Research Letters</i> , 33, L24405, doi:10.1029/2006GL028282.	Referenced in Dimova Rep.
163	Jillavenkatesa, A., S.T. Dapkus, and L-S.. H. Lum, Particle size characterization, National Institute of Standardization and Technology (NIST), U.S. Department of Commerce.	Referenced in Dimova Rep.

164	U.S. Environmental Protection Agency, Method 3051A, Microwave assisted acid digestion of sediment, sluges, soil, and oils (https://www.epa.gov/sites/production/files/2015-12/documents/3051a.pdf).	Referenced in Dimova Rep.
165	Zohdy, A. A. R., G. P. Eaton, and D. R. Mabey (1974), Application of surface geophysics to ground-water investigations, U.S. Geol. Surv. Tech. Water Resour. Invest., Book 2, Chap. D1.	Referenced in Dimova Rep.
166	Letter from D.R. Cook, VP, ABC to R. Simon, Southern Co. Servs. (Dec. 8, 1983)	DRUM000053-54; George Dep. Ex. 34; Hicks Dep. Ex. 66
167	PELA, Maxine Rock Disposal Area Surface- and Ground-Water Monitoring (April 5, 1984)	DRUM000146-197; George Dep. Ex. 35
168	Maxine Mine Rock Disposal Area Surface- and Ground-water Monitoring (Apr. 22, 1983)	DRUM000429-434; George Dep. Ex. 32; Hicks Dep. Ex. 59
169	Letter and accompanying document (Revisions to Maxine Mine Permit Application Supplement – Exhibit III) from L. George to T. Musick (Feb. 11, 1983)	DRUM000442; DRUM000439-441; George Dep. Ex. 31;
170	Letter from P. LaMoreaux to D. R. Cook, VP, ABC (Dec. 30, 1980)	DRUM000524; George Dep. Ex. 23; Hicks Dep. Ex. 47
171	Letter from P. LaMoreaux to D. Cook, VP, ABC (Oct. 2, 1980)	DRUM000535-544; George Dep. Ex. 22;
172	Letter from P. LaMoreaux to D. Cook, VP, ABC (Mar. 10, 1980)	DRUM000568-569; George Dep. Ex. 20;
173	Cover Letter and Maxine Rock Storage Area Study Conclusions (Jan. 24, 1980)	DRUM000826-830; George Dep. Ex. 17
174	Letter from P. LaMoreaux to D.R. Cook (Nov. 16, 1979)	DRUM000923-924; George Dep. Ex. 16
175	Letter from P. LaMoreaux to D.R. Cook (Nov. 6, 1979)	DRUM000925; George Dep. Ex. 14
176	Letter from D.R. Cook to P. LaMoreaux (Nov. 1, 1979)	DRUM000932; George Dep. Ex. 13

177	Outline: Work Elements Proposed for Assessment of Hydrologic Conditions of Capped Area	DRUM001724-1728; George Dep. Ex. 27
178	Addendum to ABC Maxine Mine Supplement to Permit Application	DRUM001795-1800; George Dep. Ex. 26;
179	Letter from P. LaMoreaux and L. George to T. Musick, ABC (Aug. 26, 1982)	DRUM002312-2314; George Dep. Ex. 28;
180	Letter from C. McRoy, ADEM, to D. Hicks, Drummond Co., re: Maxine Mine NPDES Permit AL0001724 (July 21, 1992)	DRUM002450; George Dep. Ex. 38;
181	Letter from D. Hicks, Drummond Co., to T. Forester, ADEM re: Maxine Mine NPDES Permit AL0001724 (July 7, 1992)	DRUM002451; George Dep. Ex. 39;
182	Historical Site Photographs	DRUM002819-3225; George Dep. Ex. 5
183	Memo re Inspection Report, Maxine Mine (Dec. 12, 1978)	DRUM003475-3476; George Dep. Ex. 9; Hicks Dep. Ex. 36
184	Letter and accompanying documents from L. George to D.R. Cook (Dec. 15, 1982)	DRUM003535-3551; George Dep. Ex. 30;
185	Letter from L. George to D.R. Cook, VP, ABC (Dec. 13, 1982)	DRUM003554-3555; George Dep. Ex. 29;
186	ADEM Inspection of Maxine Mine on Tuesday, July 26, 1983	DRUM003574; George Dep. Ex. 33; Hicks Dep. Ex. 62
187	Order, Alabama Surface Mining Commission v. Ala. By-Products Corp., No. R78-82-134S (Mar. 14, 1985)	DRUM003649-3650; George Dep. Ex. 37;
188	EPA, Transmittal of Guidance on the Use of Section 7003 of RCRA (Oct. 1997)	https://www.epa.gov/sites/production/files/2013-10/documents/use-sec7003-mem.pdf
189	EPA, Enforcement Authority Guidance	56 Fed. Reg. 24,393, 24,398 (May 30, 1991)
190	EPA, Guidelines Establishing Test Procedures for the Analysis of Pollutants; Whole Effluent Toxicity Test Methods, Final Rule	67 Fed. Reg. 69,952, 69,965-66 (Nov. 19, 2002)

191	EPA, 1985 CWA Regulations	50 Fed. Reg. 41,296, 41,298, 41,304 (Oct. 9, 1985)
192	U.S. EPA & U.S. Army Corps of Eng'rs, CWA Jurisdiction Following U.S. Supreme Court Jurisdiction in <i>Rapanos v. United States & Carabell v. United States</i> , at 10 (Dec. 2008).	https://www.epa.gov/sites/production/files/2016-02/documents/cwa_jurisdiction_following_rapanos120208.pdf
193	Reissuance of Nationwide Permits	77 Fed. Reg. 10,184, 10,288-89 (Feb. 21, 2012)
194	PELA, Maxine Rock Disposal Area Surface- and Ground-Water Monitoring (April 5, 1984)	DRUM000144-197; Hicks Dep. Ex. 67
195	Status of Surface Facilities below Old Washer Rock Dump at Maxine Mine	DRUM000426; Hicks Dep. Ex. 60
196	Maxine Mine – Status of Refuse Sites (Jan. 31, 1983)	DRUM000451-453; Hicks Dep. Ex. 58
197	Maxine Mine – Revised Estimate to Reclaim Old Refuse and Breaker Rock Areas (Jan. 26, 1983)	DRUM000454-456; Hicks Dep. Ex. 57
198	Letter from D.R. Cook to J. Myers, AWIC (Oct. 29, 1981)	DRUM000477; Hicks Dep. Ex. 50
199	M. Edwards Memo re Maxine Mine (Aug. 18, 1981)	DRUM000491; Hicks Dep. Ex. 49
200	Maxine Mine – Proposed Control of Acid Mine Drainage (Feb. 3, 1981)	DRUM000493-500; Hicks Dep. Ex. 48
201	Maxine Mine Expense (July 9, 1980)	DRUM000546; Hicks Dep. Ex. 45
202	ASMRC Memo re: Mine Drainage Problem at ABC Maxine Mine Rock Storage Areas (June 21, 1982)	DRUM000629-631; Hicks Dep. Ex. 53
203	ASMRC, Notice of Violation (Feb. 18, 1982)	DRUM000664-668; Hicks Dep. Ex. 51
204	NPDES Compliance Inspection Reports (Nov. 7, 1983)	DRUM000697-711; Hicks Dep. Ex. 64;

205	Letter from M. Edwards to J. Meyers, AWIC (Dec. 30, 1977)	DRUM000778 Hicks Dep. Ex. 35
206	Letter from M. Edwards to R. Smith, AWIC (May 4, 1976)	DRUM000806; Hicks Dep. Ex. 33
207	Letter from M. Edwards to C. Horn, AWIC (May 13, 1976)	DRUM000810-812 Hicks Dep. Ex. 34
208	Revision to Permit for Surface Coal Mining Operations	DRUM001079-1084; Hicks Dep. Ex. 11
209	Letter re: Maxine Mine, Roads to facilitate postmine land use	DRUM001571 Hicks Dep. Ex. 16
210	Letter re: Maxine Permit/Bond Status (Dec. 14, 1988)	DRUM001603; Hicks Dep. Ex. 15
211	State of Alabama Surface Mining Comm'n, Action on Bond Release Request (Jan. 27, 1992)	DRUM001618 Hicks Dep. Ex. 13
212	ASMRC Termination of Notice of Violation (Aug. 9, 1979)	DRUM002188; Hicks Dep. Ex. 38
213	ASMC Inspection at Maxine Mine on June 3, 1983	DRUM002277; Hicks Dep. Ex. 63;
214	ASMC Inspection at Maxine Mine on 5-27-83 (May 31, 1983)	DRUM002278; Hicks Dep. Ex. 61
215	Maxine Mine – Disposal Area (Oct. 26, 1982)	DRUM002308-2310; Hicks Dep. Ex. 56;
216	State of Alabama Surface Mining Comm'n, Action on Bond Release Request (July 2, 1992)	DRUM002452-2453; Hicks Dep. Ex. 12;
217	Letters re: Bonding Status	DRUM003575-3578; Hicks Dep. Ex. 14;
218	Draft Letter from D.R. Cook to R. Simon, Southern Co. Servs. (Dec. 7, 1983)	DRUM003579-3580; Hicks Dep. Ex. 65;
219	Progress Report (Mar. 25, 1980)	DRUM003604; Hicks Dep. Ex. 43
220	ASMRC, Notice of Violation (Mar. 19, 1982)	DRUM003695-3696; Hicks Dep. Ex. 52
221	Site Photographs	Hicks Dep. Exhibits 1-4; 7-10; 17-31

222	Photographs of Huryn Site Visit by Nelson Brooke	BWR002097 to BWR002154
223	Raw data spreadsheet cross referencing taxa from five samples	BWR002238 to BWR002244; Huryn Dep. Ex. 4
224	Spreadsheet converting raw data to NCBI tolerance scores	BWR002245 to BWR002253; Huryn Dep. Ex. 5
225	Hunter Nichols Videos and Photographs of Site	BWR002953-3024
226	Lenat, D.R. 1993. A biotic index for the southeastern United States: derivation and list of tolerance values, with criteria for assigning water quality ratings. Journal of the North American Benthological Society 12:279-290.	Huryn Dep. Ex. 6
227	Table of Sampling Coordinates	Huryn Dep. Ex. 2, Huryn October 2017 Expert Report p. 1
228	Table 1 – macroinvertebrate taxa collection table	Huryn Dep. Ex. 2, October 2017 Expert Report Table 1
229	Table 2 – field measurements by Betsy Dobbins	Huryn Dep. Ex. 2, Expert Report Table 2
230	Huryn CV	Huryn Dep. Ex. 2, pps. 1 - 32
231	U.S. EPA, Letter and Report, Science Advisory Board Panel on Ecological Impacts of Mountaintop Mining and Valley Fills, (2011)	Huryn Dep. Ex. 7
232	Davenport L.J. and K.J. Morse. 2010. An Assessment of Conductivity and Benthic Macroinvertebrate Health and Diversity in Alabama Streams in Ecoregion 68. Submitted to the Alabama Coal Association, August 2010.	Huryn Dep. Ex. 8

233	Clements, W.H. & C. Kotalik. 2016. Effects of major ions on natural benthic communities: an experimental assessment of the US Environmental Protection Agency aquatic life benchmark for conductivity. <i>Freshwater Science</i> 35:126-138.	Huryn Dep. Ex. 9
234	Roark and colleagues, "Influences of Subsampling and Modeling Assumptions on the U.S. Environmental Protection Field-Based Benchmark for Conductivity"	Huryn Dep. Ex. 10
235	Brown, A.V., Y. Aguila, K.B. Brown & W.P. Fowler. 1997. Responses of benthic macroinvertebrates in small intermittent streams to silvicultural practices. <i>Hydrobiologia</i> 347:119-125.	Referenced in Huryn Rebuttal Rep.
236	Buss, D.F., D.M. Carlisle, T-S. Chon, J. Culp, J.S. Harding, H.E. Keizer-Vlek, W.A. Robinson, S. Strachan, C. Thirion, R.M. Hughes. 2015. Stream biomonitoring using macroinvertebrates around the globe: a comparison of large-scale program. <i>Environmental Monitoring and Assessment</i> 187: 4132.	Referenced in Huryn Rebuttal Rep.
237	Chadwick, M. & A.D. Huryn. 2005. Response of stream macroinvertebrate production to atmospheric nitrogen deposition and channel drying. <i>Limnology & Oceanography</i> 50:228-236.	Referenced in Huryn Rebuttal Rep.
238	Feminella, J.W. 1996. Comparison of benthic macroinvertebrate assemblages in small streams along a gradient of flow permanence. <i>Journal of the North American Benthological Society</i> 15:651-669.	Referenced in Huryn Rebuttal Rep.
239	Griffith, M.B. Natural variation and current reference for specific conductivity and major ions in wadeable streams of the conterminous USA. <i>Freshwater Science</i> 33:1-17.	Referenced in Huryn Rebuttal Rep.
240	Harris, S.C., P.E. O'Neil & P.K. Lago. 1991. Caddisflies of Alabama. <i>Geological Survey of Alabama, Bulletin</i> 142.	Referenced in Huryn Rebuttal Rep.

241	Hogsden, K.L. & J.S. Harding. 2012 Consequences of acid mine drainage for the structure and function of benthic stream communities: a review. <i>Freshwater Science</i> 31:108-120.	Referenced in Huryn Rebuttal Rep.
242	Meyer, J.L., D.L. Strayer, J.B. Wallace, S.L. Eggert, G.S. Helfman & N.E. Leonard. 2007. The contribution of headwater streams to biodiversity in river networks. <i>Journal of the American Water Resources Association</i> 43:86-103.	Referenced in Huryn Rebuttal Rep.
243	Wallace, J.B., J.W. Grubaugh & M.R. While. 1996. Biotic Indices and Stream Ecosystem Processes: Results from an Experimental Study. <i>Ecological Applications</i> 6:140-151.	Referenced in Huryn Rebuttal Rep.
244	Merritt, R.W., K.W. Cummins & M.B. Berg (eds). 2008. An introduction to the Aquatic Insects of North America, 4th Edition. Kendall/Hunt Publishing Company, Dubuque, Iowa.	Referenced in Huryn Rep.
245	Thorp, J.H. & A.P. Covich. 2010. <i>Ecology and Classification of North American Freshwater Invertebrates</i> , 3rd Edition. Academic Press, New York.	Referenced in Huryn Rep.
246	Gordon Johnson Site Photographs, February 20, 2019	BWR003096-3101
247	Gordon Johnson Site Photographs, August 2017	BWR002009-2024
248	Figure A-1: Requirements for Reclamation of Mine Wastes In-Place	Johnson 2018 Rebuttal Rep.
249	Figure A-2: Cross Sectional View of Grading and Capping Plan	Johnson 2018 Rebuttal Rep.
250	Figure A-3: Sedimentation Basins and Dams	Johnson 2018 Rebuttal Rep.
251	Figure A-4: Groundwater Interception System	Johnson 2018 Rebuttal Rep.
252	Table 5.3: Summary of surface water chemistry (corrected)	Johnson 2018 Rebuttal Rep.

253	Table 6.2: Summary of Amec Foster Wheeler Flow Estimates (corrected)	Johnson 2018 Rebuttal Rep.
254	Gordon Johnson Curriculum Vitae	Johnson Dep. Ex. 2
255	Appendix A: Acid Base Accounting Laboratory Test Results	Johnson Nov. 2017 Supplemental Expert Report
256	Table 1: Summary of Acid Base Accounting Test Results	Johnson Nov. 2017 Supplemental Expert Report
257	Figure 3-1: Site Location	Johnson 2017 Rep.
258	Figure 3-2: Plan View of Site	Johnson 2017 Rep.
259	Figure 4-1: Extent of GOB Placement	Johnson 2017 Rep.
260	Figure 4-2: Estimated boundary of capped and reclaimed GOB pile	Johnson 2017 Rep.
261	Figure 4-3: Topography and Drainage	Johnson 2017 Rep.
262	Figure 4-4: Generalized Stratigraphic Column	Johnson 2017 Rep.
263	Figure 4-5: Generalized Stratigraphic Column with Water-Bearing Zones	Johnson 2017 Rep.
264	Figure 5-4: Mine waste, groundwater and surface water sampling locations	Johnson 2017 Rep.
265	Table 5.1: Summary of mine waste analytical investigation results	Johnson 2017 Rep.
266	Table 5.2: Summary of groundwater chemistry	Johnson 2017 Rep.
267	Appendix A: Site Photographs	Johnson 2017 Rep.
268	Appendix B: Laboratory Test Results for Soil Samples	Johnson 2017 Rep.
269	Table 6.1: Acid Mine Drainage Assessment	Johnson 2017 Rep.
270	Table 6.3: Summary of surface water volume estimates	Johnson 2017 Rep.
271	Gordon Johnson Site Photographs, August 2017	Johnson Rebuttal Rep., Photos 1-8
272	B.C. Ministry of Mines, 1998. Guidelines for Metal Leaching and Acid Rock Drainage at Mine Sites in British Columbia. Regulatory guidance report issued in 1998	Referenced in Johnson Rebuttal Rep.

273	Robert L. Hopkins I, Bradley M. Altier, Derek Haselman, Andrea D. Merry, and Jacob J. White. 2013. Exploring the legacy effects of surface coal mining on stream chemistry. Springer Science and Business Media Dordrecht 2013.	Referenced in Johnson Rebuttal Rep.
274	U.S. EPA, 1974. Safe Drinking Water Act. Promulgated in 1974. Amended in 1986 and 1996.	42 U.S.C. § 300f, et seq. Referenced in Johnson Rebuttal Rep.
275	Alabama Department of Environment (ADEM), 2016. Solid Waste Program. Alabama Department of Environment, Land Division, Solid Waste Program, Division 13. Revised April 8th, 2016.	Ala. Admin. Code 335-13. Referenced in Johnson Rep.
276	Johnson, D. B. and Hallberg, K. B., 2004. Acid Mine Drainage Remediation Options, A Review. University of Wales School of Business.	Referenced in 2017 Johnson Rep.
277	Price, William A., 1997. Guidelines and Recommended Methods for the Prediction of Metal Leaching and Acid Rock Drainage at Mine Sites in British Columbia. Reclamation Section, Energy and Minerals Division, Ministry of Employment and Investment.	Referenced in 2017 Johnson Rep.
278	United States Geological Survey (USGS) 2013. USGS Data Series 801 Publication – Geochemical and Mineralogical Data for Soils of the Conterminous United States.	Referenced in 2017 Johnson Rep.
279	U.S. Government, 1997. Surface Mining Control and Reclamation Act. Public Law 95-87.	Referenced in Johnson 2017 Rep.
280	U.S. Climate Data, 2017. https://www.usclimatedata.com/climate/birmingham/alabama/united-states/usal0054	Referenced in 2017 Johnson Rep.
281	Alabama Byproducts Corporation, 1982. Part II Environmental Resources Information, Maxine Mine.	DRUM001368-1452
282	Bioassay Report. Chronic Bioassays conducted August 18 through September 1, 2017.	BWR002497-2806
283	Mitchelmore CV	Mitchelmore Rep.

284	Table 1: Summary of Surface water collection sites for WET testing	Mitchelmore Rep.
285	Table 2: Summary of chronic 7-day reproductive output in the water flea (<i>C. dubia</i>) whole effluent toxicity (WET) test results (IC ₂₅ and TUC levels) in the surface water samples collected from various sites tested.	Mitchelmore Rep.
286	Table 3: Summary of chronic 7-day growth of Fathead Minnow (<i>P. promelas</i>) whole effluent toxicity (WET) test results (IC ₂₅ and TUC levels) in the surface water samples collected from various sites tested.	Mitchelmore Rep.
287	Table 4: Conductivity and pH of waters received from the chronic toxicity tests.	Mitchelmore Rep.
288	Table 5: Summary of conductivity and pH levels at the surface water collection sites determined on August 1, 2017.	Mitchelmore Rep.
289	Table 6: Summary of conductivity and pH levels at the surface water collection sites determined on August 16 or 18, 2017.	Mitchelmore Rep.
290	Table 7: Summary of iron, manganese, and sulfate levels at the surface water collection sites on August 1 or 18, 2017.	Mitchelmore Rep.
291	Table 8: Summary of dissolved metal concentrations at the surface water collection sites determined on August 1 or 18, 2017	Mitchelmore Rep.
292	Sample Locations	Mitchelmore Rep., Aquilogic Figure 17
293	USEPA, 1991. Technical support document for water quality-based toxic controls. Office of Water Enforcement and Permits and Office of Water Regulations and Standards. U.S. Environmental Protection Agency, Washington, D.C., 20460. EPA/505/2-90/001.	Referenced in Mitchelmore Rep.

294	Hemmer M.J., Barron MG and RM Greene. 2011. Comparative toxicity of eight oil dispersants, Louisiana sweet crude oil (LSC) and chemically dispersed LSC to two aquatic test species. <i>Environmental Toxicology and Chemistry</i> , 30, 10, 2244-2252.	Referenced in Mitchelmore Rep.
295	A.J. Kennedy et al., 2003. "Field and Laboratory Assessment of a Coal Processing Effluent in the Leading Creek Watershed, Meigs County, Ohio, <i>Archives of Environmental Contamination and Toxicology</i> , 44, 324-331.	Referenced in Mitchelmore Rep.
296	A.J. Kennedy et al., 2004. "Evaluation of Ecologically Relevant Bioassays for a Lotic System Impacted by a Coal-Mine Effluent Using <i>Isonychia</i> , <i>Environmental Monitoring and Assessment</i> 95, 37-55.	Referenced in Mitchelmore Rep.
297	J. L. Kunz et al., 2013. "Use of Reconstituted Waters to Evaluate Effects of Elevated Major Ions Associated with Mountaintop Coal Mining on Freshwater Invertebrates, <i>Environmental Toxicology and Chemistry</i> , Vol 32, No. 12 pp 2826-2835.	Referenced in Mitchelmore Rep.
298	USEPA, 2002. Short-term methods for estimating the chronic toxicity of effluents and receiving waters to freshwater organisms. 4th Edition. Office of Water, U.S. Environmental Protection Agency, Washington D.C. 20460. EPA/821/R-02/013.	Referenced in Mitchelmore Rebuttal Rep.
299	USEPA, 2000. Method guidance and recommendations for whole effluent toxicity (WET) testing (40 CFR Part 136). Office of Water, U.S. Environmental Protection Agency, Washington D.C. 20460. EPA/821/B-00/004.	Referenced in Mitchelmore Rebuttal Rep.

300	Bernhardt, E. S., B. D. Lutz, R. S. King, A. M. Helton, C. A. Carter, J. P. Fay, D. Campagna, J. Amos. 2012. How many mountains can we mine? Assessing the regional degradation of Central Appalachian rivers by surface coal mining. Environmental Science & Technology 46: 8115-8122.	Referenced in Mitchelmore Rebuttal Rep.
301	U.S. EPA, 2011. Guidance Summary: Improving EPA Review of Appalachian Surface Coal Mining Operations under the Clean Water Act, National Environmental Policy Act, and the Environmental Justice Executive Order. U.S. Environmental Protection Agency, Washington, D.C., 20460. July 21, 2011.	Referenced in Mitchelmore Rebuttal Rep.
302	U.S. EPA, Science Advisory Board, Panel on Ecological Impacts of Mountaintop Mining and Valley Fills, 2011. Review of Field-Based Aquatic Life Benchmark for Conductivity in Central Appalachian Streams (March 25, 2011).	Referenced in Mitchelmore Rebuttal Rep.
303	PELA, Figure 1. Location of Monitoring Sites	BWR000404; ECF No. 55-11; George Dep. Ex. 6
304	PELA, Maxine Rock Disposal Area Hydrologic and Water Quality Investigations (Oct. 5, 1984)	BWR000446-515; ECF Nos. 54-16, 54-17; George Dep. Ex. 15; Muncher Dep. Ex. 38
305	Photos of spillway by Nelson Brooke	BWR000592, BWR000712; ECF No. 55-19; Hicks Dep. Exs. 17-18.
306	Aerial photos taken by N. Brooke	BWR000600, BWR000594; ECF No. 55-13; Hicks Dep. Exs. 22 & 23

307	Photographs of flow over the spillway taken by Nelson Brooke	BWR000717, BWR000954, BWR002813; ECF No. 55-20; Hicks Dep. Ex. 19-20.
308	October 2011 Analytical Results	BWR000770-771; Brooke Dep. Exs. 7-8; ECF No. 53-3
309	June 2015 Analytical Results	BWR000772-776; ECF No. 53-4
310	Photographs of GOB pile taken by Nelson Brooke	BWR001098, BWR001104; ECF No. 56-8; Hicks Dep. Exs. 27-28
311	Photograph of SW13 drainage gully taken by Nelson Brooke	BWR001869; ECF No. 56-4; Hicks Dep. Ex. 32
312	Supplement to Permit Application for Coal Processing Waste Disposal	DRUM000215-272; ECF No. 55-16; Hicks Dep. Ex. 55; George Dep. Ex. 25
313	Supplement to Permit Application, Map 405	DRUM000267; ECF No. 55-17; Muncher Dep. Ex. 3
314	Letter from M. Edwards, Director Envtl. Control, ABC, to J. Meyers, Alabama Water Improvement Commission (June 9, 1980)	DRUM000561; ECF No. 55-5; Hicks Dep. Ex. 44
315	Alabama Surface Mining Reclamation Commission, Notice of Violation No. 79-HVR-073	DRUM000587; ECF No. 55-9; George Dep. Ex. 19
316	Memo from L. George re Maxine Rock Storage Area Project (July 30, 1980)	DRUM000749-755; ECF No. 55-18; George Dep. Ex. 21; Hicks Dep. Ex. 46

317	Letter from P. LaMoreaux, PELA, to B. Smith, Alabama Surface Mining Reclamation Commission (Jan. 28, 1980)	DRUM000831-834; ECF No. 55-10; Hicks Dep. Ex. 41; George Dep. Ex. 18
318	Letter from P. LaMoreaux, President, PELA to D. Cook, VP, ABC (Nov. 16, 1979)	DRUM000921-922; ECF No. 54-15; George Dep. Ex. 15
319	Letter from P. LaMoreaux, President, PELA to D. Cook, VP, ABC (Aug. 6, 1979)	DRUM000929-931; ECF No. 54-13; Hicks Dep. Ex. 39; George Dep. Ex. 11
320	Letter from P. LaMoreaux, PELA, to D. Cook, VP (Aug. 21, 1979)	DRUM000933-934; ECF No. 55-8; George Dep. Ex. 12
321	Letter from D. Cook, VP, ABC to H. Robins, Alabama Surface Mining Reclamation Commission (Aug. 13, 1979)	DRUM002174; ECF No. 55-3; Hicks Dep. 40
322	Letter from M. Edwards, Director Envtl. Control, ABC, to J. Meyers, Alabama Water Improvement Commission (Mar. 6, 1980)	DRUM002182-2183; ECF No. 55-4; Hicks Dep. Ex. 42
323	Alabama Surface Mining Reclamation Commission, Notice of Violation, 79-HVR-073	DRUM002189-2190; ECF No. 55-7; Hicks Dep. Ex. 37; George Dep. Ex. 10
324	Letter from D. Hicks, Drummond, to S. Foster, ADEM (June 19, 1989)	DRUM002462; ECF No. 55-25
325	NPDES Permit AL0001724	DRUM002468-2491; ECF No. 55-22; Muncher Dep. Ex. 33
326	1988 NPDES Permit Application	DRUM002499-2534; ECF No. 55-24; Muncher Dep. Ex. 29
327	NPDES Permit Outfall Locations	DRUM002589; ECF No. 55-23; Muncher Dep. Ex. 30

328	Revisions to Maxine Mine Permit Application Supplement – Ex. III	DRUM002815-2816; ECF No. 55-15; Muncher Dep. Ex. 6
329	Site Figure	DRUM002817; ECF No. 55-12; George Dep. Ex. 7
330	Memo from M. Edwards, Brief Summary – Maxine Mine Pollution Problems	DRUM003692-3293; ECF No. 55-6; Hicks Dep. Ex. 54
331	Petty, D.E. & J. Darden, Reclamation Plan for Pre-Law Refuse Disposal Area (June 3, 1985)	DRUM003697-3735; ECF No. 55-21; Muncher Dep. Ex. 40
332	Letter from M. Dodson, Direct, Water Management Division, Region VIII, U.S. EPA to D. Fraser, Chief, Water Quality Bureau, Montana Dep't of Health & Envtl. Sciences (Dec. 22, 1993)	ECF No. 56-13
333	Site Visit Photos taken by Lois George	PELA 0027-30; ECF No. 55-14; George Dep. Ex. 3
334	Historical Aerial Photographs	PELA0001- PELA00020; ECF No. 54-1; Exhibit 2 to Lois George Dep.
335	State of Alabama Surface Mining Commission Surety Bond	BWR000079; Muncher Dep. Ex. 11
336	PELA, Figure 1. Location of Monitoring Sites	BWR000404; Muncher Dep. Ex. 28
337	Documents re ground/surface water quality problems	BWR000826-845; Muncher Dep. Ex. 39
338	Site Diagrams	DRUM000152, DRUM002817; Muncher Dep. Ex. 7
339	USGS Topographic Map and Maxine Mine Labels	DRUM000320; Muncher Dep. Ex. 4
340	Storage Tanks NPDES Locations AL0001724	DRUM002535 Muncher Dep. Ex. 5

341	NPDES Permit Fact Sheet, AL0001724	DRUM002567-2571; Muncher Dep. Ex. 31
342	Maxine Mine Permit Map, Map 400	DRUM002621; Muncher Dep. Ex. 2
343	Letter from M. Edwards to J. Warr and attachments (Mar. 1, 1976)	DRUM003517-3522; Muncher Dep. Ex. 37
344	Letter from J. Warr to M. Edwards and attachments (Feb. 11, 1976)	DRUM003525-3526; Muncher Dep. Ex. 36
345	Letter from W.E. Self to Don Keith (Jan. 16, 1975)	DRUM003528-3530; Muncher Dep. Ex. 34;
346	Map of Site	DRUM003534 Muncher Dep. Ex. 35;
347	Historical Site Photos	Muncher Dep. Ex. 19
348	Historical Site Photographs	Muncher Dep. Ex. 20
349	Historical Site Photographs	Muncher Dep. Ex. 21
350	Historical Site Photographs	Muncher Dep. Ex. 24
351	Historical Site Photographs	Muncher Dep. Ex. 25
352	Responses to Plaintiff's First Interrogatories, Request for Production of Documents, and Request for Entry upon Land for Inspection to Defendant Drummond Company	Muncher Dep. Ex. 9
353	Maps and interactive maps featuring other listed exhibits including aerial photos, geo-referenced photographs, sampling locations, and features of the site for demonstrative purposes	
354	Figure 1: Site Locations	DRUM000152; Simpson Dep. Ex. 5
355	USEPA, 1991. Technical support document for water quality-based toxic controls. Office of Water Enforcement and Permits and Office of Water Regulations and Standards. U.S. Environmental Protection Agency, Washington, D.C., 20460. EPA/505/2-90/001.	Simpson Dep. Ex. 7

356	Figures attached to CH2M Expert Report (CH2M Response to Plaintiff's Reports Regarding the Former Maxine Mine Site Near Maxine, Jefferson County, Alabama)	CH2M 2017 Expert Report by Sisk and Roark
357	Tables attached to CH2M Expert Report (CH2M Response to Plaintiff's Reports Regarding the Former Maxine Mine Site Near Maxine, Jefferson County, Alabama)	CH2M 2017 Expert Report by Sisk and Roark
358	Appendix A: Results of November 3, 2016 and February 2, 2017 Water Quality Studies, TTL, Inc.	CH2M 2017 Expert Report by Sisk and Roark
359	Appendix B: The Locust Fork at Sayre, Alabama, USGS Stream Gaging Station 02456500, January 1, 2016 – October 31, 2017	CH2M 2017 Expert Report by Sisk and Roark
360	Appendix C: ADEM Reservoir Monitoring Data for Station BANT-3 ADEM Fish Tissue Data for the Locust Fork	CH2M 2017 Expert Report by Sisk and Roark
361	Appendix D: Alabama Fish Consumption Advisories	CH2M 2017 Expert Report by Sisk and Roark
362	Figures with Sampling Locations	Sisk Dep. Ex. 3
363	Photographs taken by Lynn Sisk	Sisk Dep. Ex. 4
364	Sampling Results	DRUM003226-3321; Sisk Dep. Ex. 6
365	Field Notes	DRUM003322-3438; Sisk Dep. Ex. 7
366	Barry Sulkin Photographs, 2017	BWR001972-1988
367	Barry Sulkin Photographs, 2016	BWR002937-2942
368	Barry Sulkin Photographs and Video, January 30, 2019	BWR003025-3031;
369	January 30, 2019 Water Sampling Lab Results	BWR003031-3061;
370	Barry Sulkin Field Notes, Jan. 30, 2019	BWR003062
371	February 20, 2019 Water Sampling Lab Results	BWR003228-3259
372	Barry Sulkin Field Notes, Feb. 20, 2019	BWR003260

373	Barry Sulkin Photographs and Videos, February 20, 2019	BWR003218-3227 & BWR003261-3266;
374	Alabama Water Quality Criteria, Ala. Admin. Code Chapter 335-6-10	Referenced by BWR experts
375	40 C.F.R. Part 434 (EPA Regulations)	Referenced by BWR experts
376	U.S. EPA, Water: Monitoring & Assessment, 5.4 pH (https://archive.epa.gov/water/archive/web/html/vms54.html)	Referenced in 2017 Sulkin Rep.
377	Tennessee Rules and Regulations 0400-40-03	Referenced in 2017 Sulkin Rep.
378	Alabama Admin. Code Chapter 335-6-11	Referenced in 2017 Sulkin Rep.
379	EPA Recommended Water Quality Criteria https://www.epa.gov/wqc/national-recommended-water-quality-criteria .	Referenced in 2017 Sulkin Rep.
380	Attachment 1: Calibration Notes	Sulkin 2018 Rebuttal Rep., Attachment 1
381	Curriculum Vitae of Barry Sulkin	Sulkin Dep. Ex. 2
382	Sampling Laboratory Results, September 20, 2016	Sulkin Dep. Ex. 5
383	Curriculum Vitae of Barry Sulkin	Sulkin 2017 Rep., Attachment 1
384	Attachment 2: Field Notes	Sulkin 2017 Rep., Attachment 2
385	Attachment 3: Sampling Laboratory Results, September 20, 2016	Sulkin 2017 Rep., Attach. 3; ECF No. 56-2, pp. 29-124
386	Attachment 4: Surface Water Laboratory Results, August 2017	Sulkin 2017 Rep., Attachment 4; ECF No. 56-3
387	Attachment 5: Summary of lab results - August 1, 16, 18 dissolved metals	2017 Sulkin Rep.
388	Attachment 6: Summary of lab results - August 1, 16, 18 total metals and other parameters	2017 Sulkin Rep.
389	Figure 1: Map of Maxine Mine Site	2017 Sulkin Rep.

390	Figure 2: Map of Maxine Mine Site	2017 Sulkin Rep.
391	Figure 3: Sample Locations, September 20, 2016	2017 Sulkin Rep.
392	Figure 4: Sample Locations, August 2017	2017 Sulkin Rep.
393	Table 1: Field measurements for August 1, 2017	2017 Sulkin Rep.
394	Table 2: Field measurements for August 16 and 18, 2017	2017 Sulkin Rep.
395	Table 3: September 20, 2016, Water – Total Metals	2017 Sulkin Rep.
396	Table 4: September 20, 2016, Sediment	2017 Sulkin Rep.
397	Key Historical Site Map	Wood Dep. Ex. 10
398	Amec Foster Wheeler Tables of Sampling Results	Wood Dep. Ex. 11
399	Amec Foster Wheeler Field Notes	Wood Dep. Ex. 16
400	Amec Foster Wheeler E&I, Former Maxine Mine Hydrology Report	Wood Dep. Ex. 17
401	Key Historical Site Map	Wood Dep. Ex. 19
402	Test America Laboratory Results	Wood Dep. Exs. 13-15
403	Photos from Game Cameras spanning the week of February 20-26, 2019	BWR003924- BWR006301
404	Nelson Brooke Site Photos and Videos From November 24, 2020	BWR006302- BWR006381
405	Nelson Brooke Site Photos and Videos From February 29, 2020	BWR006682- BWR006449
406	Nelson Brooke Site Photos and Videos From June 3, 2020	BWR006450- BWR006521
407	Nelson Brooke Site Photos and Videos From August 26, 2020	BWR006522- BWR006566
408	Nelson Brooke Site Photos and Videos From January 12, 2021	BWR003275- BWR003477
409	May 2021 Drone Footage	BWR003478- BWR003557
410	May 2021 Site Visit Photos	BWR003558- BWR003609
411	December 2021 Drone Footage	BWR003610- BWR003811
412	January 2022 Sampling	BWR003812- BWR003820

413	Photos and Videos from January 2022 Site Visit	BWR003821- BWR003923
414	Figure 1: Chemistry at stations 104 (seep 5) and 109 (bottom of OLC-4) between Jan. 2020 and March 2022	Hedin Expert Report (3/28/2022)
415	Figure 2: Risk Analysis matrix from Penn. Department of Environmental Protections September 17, 2016	Hedin Expert Report (3/28/2022)
416	Table 1: Characteristics of AMD seeps at the Maxine Mine site and at AML sites in Pennsylvania	Hedin Expert Report (3/28/2022)
417	Table 2: Characteristics and treatment effectiveness of OLC in West Va. And Penn.	Hedin Expert Report (3/28/2022)
418	Table 3: Influent and effluent chemistry of rosebud Min treatment system	Hedin Expert Report (3/28/2022)
419	Table 4: Annual Chemical treatment cost estimates for Maxine Mine seeps	Hedin Expert Report (3/28/2022)
420	Photo 1: Open Limestone Channel installed below seep 6 at Maxine Mine	Hedin Expert Report (3/28/2022)
421	Photo 2: Slag aggregate applied at Seep 1	Hedin Expert Report (3/28/2022)
422	Photo 3: OLC 4facing uphill below Northern Draw	Hedin Expert Report (3/28/2022);Drummond Report Feb 2022
423	Photo 4: Closeup of iron-stained riprap	Hedin Expert Report (3/28/2022); Drummond Report Feb 2022
424	Photo 5: Photo of Limestone aggregate in OLC-4	Hedin Expert Report (3/28/2022); Drummond Report Feb 2022
425	Table 5.1: Surface Water Quality- OLC3, 002	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)

426	Table 5.2: Seep Water Quality- Seep 3	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
427	Table 6.1: Acid Base Accounting- Maxine Mine GOB Pile	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
428	Table 6.2A: Average Surface Water Discharges into Locust Fork	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
429	Table 6.2B: Average Background Surface Water and Run-on to the GOB Pile	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
430	Table 6.2C: Average Surface Water Quality in OLCs	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
431	Table 6.2D: Surface Water Quality at Monitoring Point 201	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
432	Table 6.2: Monitoring Well Completion Details	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
433	Table 6.3: Average Groundwater Quality Summary	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
434	Table 7.1: Summary of Amec Foster Wheeler Flow Estimates	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)

435	Table 7.2: Measured versus Predicted GOB Pile Thickness	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
436	Table 8.1: Overview of Restoration Options	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
437	Figure 3-1: Site Location	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
438	Figure 3-2: Plan View of Site	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
439	Figure 4-1: Historical View of General Overburden Pile	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
440	Figure 4-2: Estimated Boundary of Capped GOB Pile (1992)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
441	Figure 4-3: Topography and Drainage	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
442	Figure 4-4: Generalized Stratigraphic Column (Drummond, 1982)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
443	Figure 4-5: Generalized Stratigraphic Column with Water-Bearing Zones (Drummond, 1982)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)

444	Figure 5-1: Maxine Remedial Progress Map (Drummond, 2022)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022); (Drummond Report, Feb 2022)
445	Figure 5-2: Lower Basin Revegetation (2021)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
446	Figure 5-3: Water Discharges to the Locust Fork at Tributary 1	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
447	Figure 5-4: Open Limestone Channels in Lower Basin	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
448	Figure 5-5: Check Dam and Erosion above OLC 4	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
449	Figure 5-6: Riprap Surfacing at North Bend of the Locust Fork	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
450	Figure 5-7: Pilot Injection Program (December 2, 2021)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
451	Figure 5-8: Survey of Surface Water pH (March 9&10, 2022)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
452	Figure 6-1: Groundwater and Seep Sampling Locations	Burgess Environmental/Johnson

		3 rd Supp. Report (3/28/2022)
453	Figure 6-2A: Surface Water Quality and Quantity of Discharges into the Locust Fork	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
454	Figure 6-2B: Temporal Assessment of OLC Impact on Surface Water Quality	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
455	Figure 6-2C: Temporal Assessment of Slag and Lime Impact on Surface Water Quality	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
456	Figure 6-3A: Seep 1 Water Quality and Quantity	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
457	Figure 6-3B: Seep 2 Water Quality and Quantity	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
458	Figure 6-3C: Seep 3 Water Quality and Quantity	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
459	Figure 6-3D: Seep 4 Water Quality and Quantity	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
460	Figure 6-3E: Seep 5 Water Quality and Quantity	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
461	Figure 6-3F: Seep 6 Water Quality and Quantity	Burgess Environmental/Johnson

		3 rd Supp. Report (3/28/2022)
462	Figure 6-4A: Groundwater Elevations – GOB Waste (Aquilogic, 2021)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
463	Figure 6-4B: Groundwater Elevations – Bedrock (Aquilogic, 2021)	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
464	Figure 6-4C: Relationship Between Precipitation and Groundwater Flow Rate at Seep 3	Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
465	Table 1: Well Completion Details	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
466	Table 2: Groundwater Quality Data	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
467	Table 3: Average Groundwater Quality Data – Key Parameters	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
468	Table 4: Average Background Groundwater Quality Data – Key Parameters	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
469	Table 5: Average Site GOB Well Groundwater Quality Data – Key Parameters	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
470	Table 6: Average Site Bedrock Well Groundwater Quality Data – Key Parameters	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
471	Table 7: Average Site Soil Well Groundwater Quality Data – Key Parameters	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)

472	Table 8: Comparison of 2017 Piezometer Data with MW-07A Data – Key Parameters	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
473	Table 9: Comparison of 2017 Groundwater Seep (SW4) Data To Groundwater Seep (101 & Seep 3) Data	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
474	Table 10: Groundwater Elevation Data for the GOB Wells	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
475	Table 11: Groundwater Elevation Data for the Bedrock Wells	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
476	Table 12: Groundwater Elevation Data for the Well Pairs	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
477	Table 13: Ongoing Discharges of Solids to the Locust Fork	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
478	Table 14: Days with Precipitation at Maxine Mine Site	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
479	Figure 1: Monitoring Well Locations	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
480	Figure 2: Groundwater Elevations for the GOB Wells	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
481	Figure 3: Groundwater Elevations for the Bedrock Wells	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
482	Figure 4: Groundwater Elevations for the Well Pairs	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)
483	Figure 5: Lower Dam Area Water Management Infrastructure	Aquilogic/ Brown Supplemental Expert Report (3/27/2022)

484	Table 1: Statistical analysis of significance of differences between flow rates and loadings for: Seep 3 prior to OLC-3 installation, compared to Seep 3 + OLC-3 after OLC installation.	Hedin Rebuttal Report (4/8/2022)
485	Figure 1: Base Map- Measures recently Implemented by Drummond	Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
486	Figure 2: Temporary Assessment of OLC Impact on Surface Water Quality	Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
487	Figure 3: Seep 6 Water Quality and Quantity	Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
488	Figure 4: Water Quality- Polishing Pond	Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
489	Figure 5: Vegetation in Lower Basin (2022)	Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
490	Drummond's July 2020 Report and Attachments	Drummond's July 2020 Report on Site Work
491	Drummond's August 2020 Report and Attachments	Drummond's August 2020 Report on Site Work
492	Drummond's October 2020 Report and Attachments	Drummond's October 2020 Report on Site Work
493	Drummond's December 2020 Report and Attachments	Drummond's December 2020 Report on Site Work

494	Drummond's February 2021 Report and Attachments	Drummond's February 2021 Report on Site Work
495	Drummond's March 2021 Report and Attachments	Drummond's March 2021 Report on Site Work
496	Drummond's May 2021 Report and Attachments	Drummond's May 2021 Report on Site Work
497	Drummond's June 2021 Report and Attachments	Drummond's June 2021 Report on Site Work
498	Drummond's August 2021 Report and Attachments	Drummond's August 2021 Report on Site Work
499	Cravotta III, C.A., 2008. Dissolved metals and associated constituents in abandoned coal-mine discharges, Pennsylvania, USA – 1. Constituent concentrations and correlations.	Referenced in Hedin Expert Report (3/28/2022)
500	Cravotta III, C.A., Means, B., Arthur, W., McKenzie, R., Parkhurst, D.L., 2014. AMDTreat 5.0+ with PHREEQC titration module to compute caustic chemical quantity, effluent quality, and sludge volume.	Referenced in Hedin Expert Report (3/28/2022)
501	Goetz, E. R., & Riefler, R. G. (2014). Performance of steel slag leach beds in acid mine drainage treatment. <i>Chemical Engineering Journal</i> , 240, 579-588.	Referenced in Hedin Expert Report (3/28/2022)
502	Kruse, N., Hawkins, C., López, D. L., & Johnson, K. (2019). Recovery of an Acid Mine Drainage-Impacted Stream Treated by Steel Slag Leach Beds.	Referenced in Hedin Expert Report (3/28/2022)
503	Kruse N, Mackey A, Bowman J, Brewster K, Riefler, R. 2012. Alkalinity production as an indicator of failure in steel slag leach.	Referenced in Hedin Expert Report (3/28/2022)
504	Pennsylvania Department of Environmental Protection. 1998. Coal Mine Drainage Prediction and Pollution Prevention in Pennsylvania	Referenced in Hedin Expert Report (3/28/2022)

505	Simmons, J., Ziemkiewicz, P., & Courtney Black, D. (2002). Use of steel slag leach beds for the treatment of acid mine drainage.	Referenced in Hedin Expert Report (3/28/2022); Hedin Rebuttal Report (4/8/2022)
506	Ziemkiewicz PF, Skousen JD, Brant DL, Sterner PL, and Lovett RJ. 1997. Acid mine drainage treatment with armored limestone in open limestone channels.	Referenced in Hedin Expert Report (3/28/2022)
507	Ziemkiewicz, P., & Skousen, J. 1998. The use of steel slag in acid mine drainage treatment and control.	Referenced in Hedin Expert Report (3/28/2022)
508	Ziemkiewicz, P. 1998. Steel slag: applications for AMD control	Referenced in Hedin Expert Report (3/28/2022)
509	Petit, Florian. (2020). The Beginnings of LiDAR – A Time Travel Back in History. Blickfeld Blog. April 23.	Referenced in Aquilogic Expert Report (3/27/2022)
510	Alabama Byproducts Corporation, 1985. Reclamation Plan for Pre-Law Refuse Disposal Area of Maxine Mine and Impacts on Water Quality.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
511	Alabama Byproducts Corporation, 1982. Part II Environmental Resources Information, Maxine Mine.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
512	Alabama Department of Environment (ADEM), 2016. Solid Waste Program. Alabama Department of Environment, Land Division, Solid Waste Program, Division 13. Revised April 8th, 2016.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
513	Amec Foster Wheeler E&I, 2017. Former Maxine Mine Hydrology Report. Technical report prepared for Drummond Company.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
514	Cuthbertson, William C., 1964. Geology and Coal Resources of the Coal-Bearing Rocks of Alabama.	Referenced in Burgess Environmental/Johnson

		3 rd Supp. Report (3/28/2022)
515	Johnson, 2018. Deposition Testimony of: 19 Gordon Johnson, M.Sc., P.Eng. 20 June 21, 2018	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
516	Johnson, D. B. and Hallberg, K. B., 2004. Acid Mine Drainage Remediation Options, A Review. University of Wales School of Business.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022); Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
517	North Carolina Health News. (2019). Judge sides with DEQ on Duke Energy coal ash removal. August 2, 2019.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
518	PADEP, 1998. Coal Mine Drainage Prediction and Pollution Prevention in Pennsylvania.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022); Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
519	PADEP, no date. Fran Contracting Camp Run No. 2. Acid Mine Drainage Abatement Project.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
520	P. E. Lamoreaux and Associates, 1984. Maxine Rock Disposal Area Hydraulic and Water Quality Investigations.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022); Burgess Environmental/Johnson Rebuttal Report (4/8/2022)

521	Pennsylvania, 2007. Preliminary Assessment of Acid Producing Rock on Future PENNDOT Construction.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
522	Price, William A., 1997. Guidelines and Recommended Methods for the Prediction of Metal Leaching and Acid Rock Drainage at Mine Sites in British Columbia.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
523	United States Geological Survey (USGS) 2013. USGS Data Series 801 Publication – Geochemical and Mineralogical Data for Soils of the Conterminous United States.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
524	U.S. Government, 1997. Surface Mining Control and Reclamation Act. Public Law 95-87.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
525	U.S. Climate Data, 2017.	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022); Burgess Environmental/Johnson Rebuttal Report (4/8/2022)
526	Virginia DEQ, 2018. Memorandum of Agreement for the Regulation of Coal Combustion Residuals at the Chesapeake Energy Center. Agreement	Referenced in Burgess Environmental/Johnson 3 rd Supp. Report (3/28/2022)
527	Hedin, R. S., R. W. Nairn, and R. L. P. Kleinmann. 1994. Passive treatment of polluted coal mine drainage.	Referenced in Hedin Rebuttal Report (2022)
528	Robinson, W., Ivey, J., Billingsley, G. 1953. Water Supply of the Birmingham Area, Alabama	Referenced in Hedin Rebuttal Report (2022)
529	USEPA. (1999). Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites.	Referenced in Burgess Environmental/Johnson Rebuttal Report (4/8/2022)

530	Drummond Production from January 31, 2022	DRUM005897- DRUM010291
531	Drummond February 15, 2022 Remediation Plan	Wood Remediation Plan
532	Declaration of Jim Gusek 8/27/2021	Doc. 108-1
533	Declaration of David Muncher	Doc. 108-2
534	Muncher Site Photos	Doc 108-3
535	Muncher Site Photos	Doc. 108-4
536	Muncher Site Photos	Doc. 108-5
537	Brown Figures Attachment 2 to Exhibit 1	Doc. 106-1
538	All Exhibits to Drummond Expert Depositions 2022	N/A at this time
539	All Exhibits to BWRk Expert Depositions 2022	N/A at this time
540	All Figures or Attachments to Drummond Expert Reports 2022	Muncher Report (3/28/2022); Linkan-Wood Report (3/28/2022); Muncher Rebuttal Report (4/8/2022); Linkan-Wood Rebuttal Report (4/8/2022)
541	All Figures or Attachments to BWRk Expert Reports	Hedin Report (2022); Hedin Rebuttal Report (4/8/2022); Aquilogic/Brown Expert Report (3/27/2022); Aquilogic/Brown Rebuttal Report (4/8/2022); Burgess Env. /Johnson Expert Report (3/28/2022); Burgess Env./Johnson Rebuttal Report (2022)

542	Any Exhibit Offered by Drummond	N/A at this time
543	Any Exhibit Needed for Rebuttal or Impeachment of Any Witness	N/A at this time
544	Documents Produced by Drummond on 4/18/2022	Improperly Labeled DRUM009862- DRUM010283